

**ABSTRACT**

Device for the dynamic measurement of an object's relative position, with respect to a mobile reference system, which comprises an articulated mechanical arm with five degrees of freedom and with five angular position sensors that allow the measurement of the three spatial coordinates of a point on the object and the two inclination angles ( $\alpha$  (convergence) and  $\gamma$  (descent)) that define a plane of symmetry for the measuring object with respect to a reference point, said device being particularly applicable to the dynamic measurement of the relative position of a vehicle's wheel.